ENGLAND GCSE MATHS EDEXCEL FOUNDATION · UNIT 10 · 25 QUESTIONS

Geometry, Measurement, Area, Volume and Circles — Practice Test

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

1 **A cardboard box is 8 cm long, 5 cm wide and 3 cm high. Its volume is**

- **A** 120 cm³
- **B** 43 cm³
- **C** 40 cm³
- **D** 128 cm³

Understand It with Pulse | Flag a mistake

2 **A swimming pool is 25 m long, 12 m wide and 3 m deep. Its volume is**

- **A** 300 m^3
- **B** 1000 m^3
- **C** 936 m^3
- **D** 900 m^3

Understand It with Pulse | Flag a mistake

3 **A chocolate cake is a cylinder with radius 10 cm and height 6 cm. Its volume, to one decimal place, is about**

- **A** 3769.9 cm^3
- **B** 188.5 cm^3
- **C** 1885 cm^3
- **D** 314.2 cm^3

Understand It with Pulse | Flag a mistake

4 **A cup of coffee fills a cylindrical cup with radius 5 cm and height 9 cm. The volume of the coffee is, to one decimal place, about**

- **A** 1413.7 cm^3
- **B** 78.5 cm^3
- **C** 706.9 cm^3
- **D** 141.4 cm^3

Understand It with Pulse | Flag a mistake

5 **A roundabout has a radius of 10 m. Its area, to one decimal place, is about**

- **A** 628.3 m^2
- **B** 62.8 m^2
- **C** 31.4 m^2
- **D** 314.2 m^2

Understand It with Pulse | Flag a mistake

6 **A Ferris wheel has a diameter of 10 m. Its circumference, to one decimal place, is about**

- **A** 37.7 m
- **B** 62.8 m
- **C** 15.7 m
- **D** 31.4 m

Understand It with Pulse | Flag a mistake

7 **A circle has a radius of 3 cm. Its area, to one decimal place, is about**

- **A** 9.4 cm^2
- **B** 18.8 cm^2
- **C** 56.5 cm^2
- **D** 28.3 cm^2

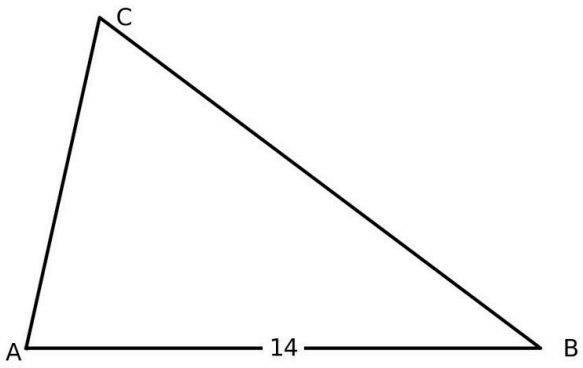
Understand It with Pulse | Flag a mistake

8 **A trapezium has parallel sides of 8 cm and 10 cm, and the distance between them is 4 cm. Its area is**

- **A** 72 cm²
- **B** 40 cm²
- **C** 36 cm²
- **D** 80 cm²

Understand It with Pulse | Flag a mistake

9 **A triangle has base 14 cm and height 9 cm. Its area is**



- **A** 126 cm²
- **B** 23 cm²
- **C** 77 cm²
- **D** 63 cm²

Understand It with Pulse | Flag a mistake

10 **A cylinder has radius 5 cm and height 12 cm. Its volume, to one decimal place, is about**

- A 188.5 cm³
- B 942.5 cm³
- C 78.5 cm³
- D 377 cm³

Understand It with Pulse | Flag a mistake

11 **A prism has a cross-section of area 24 cm² and length 10 cm. Its volume is**

- A 264 cm³
- B 240 cm³
- C 34 cm³
- D 120 cm³

Understand It with Pulse | Flag a mistake

12 **A rectangle is 5 cm long and 6 cm wide. Its perimeter is**

- A 30 cm
- B 24 cm
- C 11 cm
- D 22 cm

Understand It with Pulse | Flag a mistake

13 **A circle has a radius of 10 cm. Its circumference, to one decimal place, is about**

- A 314.2 cm
- B 69.1 cm
- C 31.4 cm
- D 62.8 cm

Understand It with Pulse | Flag a mistake

14 **A circle has a radius of 4 cm. Its area, to one decimal place, is about**

- **A** 100.5 cm²
- **B** 25.1 cm²
- **C** 12.6 cm²
- **D** 50.3 cm²

Understand It with Pulse | Flag a mistake

15 **A cuboid is 6 cm by 2 cm by 4 cm. Its total surface area is**

- **A** 44 cm²
- **B** 88 cm²
- **C** 24 cm²
- **D** 48 cm²

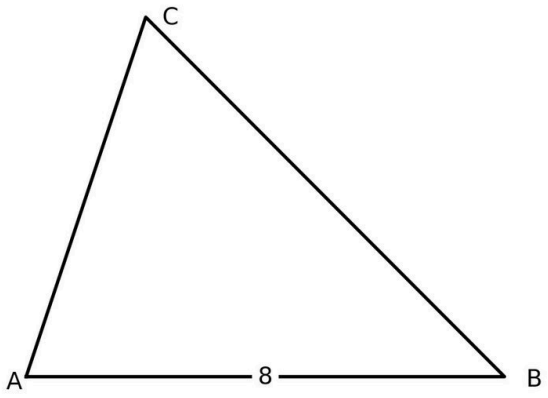
Understand It with Pulse | Flag a mistake

16 **A trapezium has parallel sides of 8 cm and 14 cm, and the distance between them is 7 cm. Its area is**

- A 112 cm²
- B 77 cm²
- C 84 cm²
- D 154 cm²

Understand It with Pulse | Flag a mistake

17 **A triangle has base 8 cm and height 6 cm. Its area is**



- **A** 14 cm²
- **B** 32 cm²
- **C** 48 cm²
- **D** 24 cm²

Understand It with Pulse | Flag a mistake

18 **A prism has a cross-section of area 12 cm² and length 10 cm. Its volume is**

- **A** 120 cm³
- **B** 60 cm³
- **C** 22 cm³
- **D** 132 cm³

Understand It with Pulse | Flag a mistake

19 **A rectangle is 15 cm long and 5 cm wide. Its perimeter is**

- **A** 75 cm
- **B** 20 cm
- **C** 40 cm
- **D** 42 cm

Understand It with Pulse | Flag a mistake

20 **A circle has a radius of 3 cm. Its circumference, to one decimal place, is about**

- A 18.8 cm
- B 25.1 cm
- C 9.4 cm
- D 28.3 cm

Understand It with Pulse | Flag a mistake

21 **A circle has a radius of 7 cm. Its area, to one decimal place, is about**

- A 44 cm^2
- B 153.9 cm^2
- C 307.9 cm^2
- D 22 cm^2

Understand It with Pulse | Flag a mistake

22 **A cuboid is 3 cm by 5 cm by 3 cm. Its total surface area is**

- A 78 cm²
- B 45 cm²
- C 30 cm²
- D 39 cm²

Understand It with Pulse | Flag a mistake

23 **A trapezium has parallel sides of 5 cm and 7 cm, and the distance between them is 5 cm. Its area is**

- A 60 cm²
- B 30 cm²
- C 35 cm²
- D 32 cm²

Understand It with Pulse | Flag a mistake

24 **A cylinder has radius 3 cm and height 8 cm. Its volume, to one decimal place, is about**

- **A** 226.2 cm^3
- **B** 150.8 cm^3
- **C** 28.3 cm^3
- **D** 75.4 cm^3

Understand It with Pulse | Flag a mistake

25 **A prism has a cross-section of area 30 cm^2 and length 5 cm. Its volume is**

- **A** 75 cm^3
- **B** 150 cm^3
- **C** 35 cm^3
- **D** 180 cm^3

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	A	**10.**	B	**19.**	C
2.	D	**11.**	B	**20.**	A
3.	C	**12.**	D	**21.**	B
4.	C	**13.**	D	**22.**	A
5.	D	**14.**	D	**23.**	B
6.	D	**15.**	B	**24.**	A
7.	D	**16.**	B	**25.**	B
8.	C	**17.**	D		
9.	D	**18.**	A		

© 2026 Brett Robbins. All Rights Reserved.